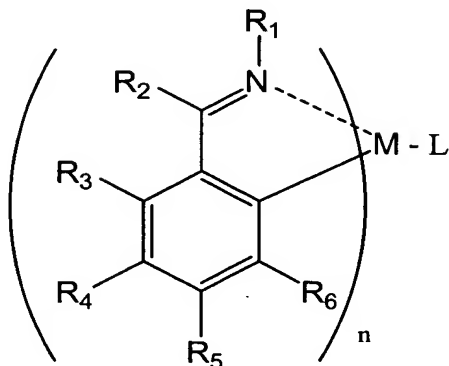


CLAIMS

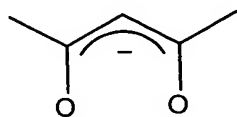
1. An organometallic complex represented by the following general formula 2:



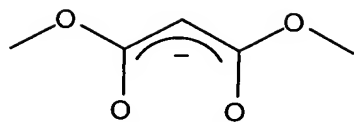
(Formula 2)

(where R₁ is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group; R₂ is hydrogen, an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group; R₃, R₄, R₅, and R₆ may be identical or different, and are individually hydrogen, halogen, an alkyl group, an alkoxy group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group; M is an element of Group 9 or an element of Group 10, and n = 2 when the M is the element of Group 9 or n = 1 when the M is the element of Group 10; and L is a monoanionic ligand having a β-diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group)

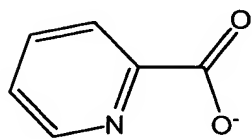
2. The organometallic complex according to claim 1, wherein the M is iridium or platinum.
3. The organometallic complex according to claim 1 or claim 2, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9.



(Formula 3)

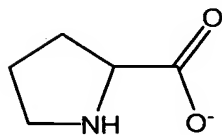


(Formula 4)

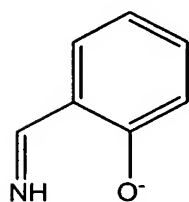


(Formula 5)

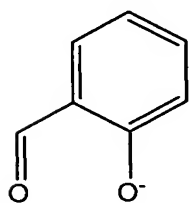
5



(Formula 6)

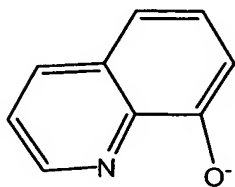


(Formula 7)



(Formula 8)

10



(Formula 9)

4. An electroluminescent device using the organometallic complex according to claim 1.

5. An electroluminescent device using the organometallic complex according to claim 2.

15 6. An electroluminescent device using the organometallic complex according to claim 3.

7. An electroluminescent device using the organometallic complex according to claim 1 as a light emitter.
8. An electroluminescent device using the organometallic complex according to claim 2 as a light emitter.
- 5 9. An electroluminescent device using the organometallic complex according to claim 3 as a light emitter.
10. A light-emitting device using the electroluminescent device according to any of claims 4 to 9.